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1. Partial least-squares modeling of continuous nodes in Bayesian ...

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For evidence node, if the stochastic sampling value is inconsistent with the ..... 5. Conclusion. In this paper, an approximate Bayesian network ... Bayesian network inference', Journal of system simulation,. 2004,16,(2), pp.286-288 ...

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mental results in Section 5 and present the **conclusion**. 2. Background. We use boldface letters, such as ... it is called a causal **Bayesian network**. When the **nodes** are ..... is added because each **evidence node** has different ...

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in **Bayesian networks**. Recently, this has been studied by various teams in the DARPA ACIP program. The popular ... value, it is said to be an **evidence node**. The joint .... **Conclusion**. We have presented an implementation of a parallel ... www.ll.mit.edu/HPEC/agendas/proc06/.../11\_Prasanna\_Abstract.pdf - <u>Similar</u>

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large scale text retrieval system using **Bayesian network** are discussed The main problems are .... directly or from the use of other rules to the desired **conclusion**. .... methods to handle indirect loop, namely clustering and **simulation** [Pearl88]. ... **bayesian** netowrk for text retrieval using the intelligence **nodes**. ...

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In yet another aspect, the **causal dependency** table includes a separate column .... Branches, termed **conclusion** links 402, leaving the root **evidence node** 400a ... **Causal** links 506 are then created in the **Bayesian network** leading from the ... www.patentstorm.us/patents/7328200/description.html - Similar

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From the definition of **Causal Bayesian Networks** (Pearl, 2001, Section 1.3.1), ..... **Evidence**-based analysis: Instantiate leaf **nodes** with new **evidence** and recalculate .... **dependency** matrices, critical **node** information or individual conditional ... COGNET models from results obtained in **simulation** runs of COA-Sim; ...

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3. LNCS 4053 - Conceptual Change Modeling Using Dynamic Bayesian Network

telligent Pedagogical Agent, and making connection between the computer **simulation .... nodes** to accommodate **node**. The **evidence** for supporting whether or not the new ... The temporal **causal dependencies** between the time slices are then defined .... plausibility **node**. 5 **Conclusion**. In this article, we proposed the ...

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where π is the set of parents of node Xi. The marginal probability of Xi is: .... or causal dependence between A and B also needs to be incorporated. ..... Goal-oriented symbolic propagation in Bayesian networks. ... Fung R, Chang K. Weighing and integrating evidence for stochastic simulation in Bayesian Networks. ...

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causal dependencies. In a Bayesian network, the exact joint probability distribution over a set of n variables, ..... Comparison of Bayesian Network modeling and Logic. Simulation. BN-Nodes ... In conclusion, we presented an exact probability ... Based on Evidence Pre-propagation," Uncertainty on Artificial In- ...

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A Bayesian network over X is a pair (D, P) where the graph D is a directed ... one for each variable, where Hi is the set of parents of node X. If we ... A standard technique to deal with this problem is the Monte Carlo .... tail probability interval for the probability of failure of the system, q = P(Q = 1). ...

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given a set of evidence (for example, symptoms, .... influence arcs, that is conditional dependence of the destination on the origin. ... In the example, the angiogram test node rep- ... causal probability networks and Bayesian nets, (Pearl 1988). ... failure mode, or several different diseases can ...

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about novel causal systems, these expectations must go far beyond mere records ... ment that causal Bayesian networks are too limited to capture the ......
Theories at each level of abstraction define a prior probability ..... with a sum over a sample of hypotheses generated by Markov Chain Monte Carlo techniques ...
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# 10. Representing Uncertainties Using Bayesian Networks

propagates against the links of the network to update the probability ... Single sensor systems are not robust as a failure of the sensor will result in ...... Discenza, J. H., Use of Monte Carlo Modelling and Bayes's Rule for Situation ..... causal network. The separations and dependencies described capture all ... dspace dsto.defence.gov.au/dspace/.../DSTO-TR-0918%20PR.pdf - Sentiar

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1. Backward Inference in Bayesian Networks for Distributed Systems ...

between effect nodes and causal nodes. In the SDR algorithm, multiple effects ... P: the dependency probability distribution for every node in Bayesian .... generate the Bayesian networks and the data set for inference test. ..... R. M. Neal, Probabilistic inference using Markov chain Monte Carlo methods, Tech-...

www.springerlink.com/index/F3511N2805423672.pdf - Similar by J Ding - 2005 - Cited by 3 - Related anxiles - All 7 versions

### 2. Graphical Models

Since the C node has no parents, its CPT specifies the prior probability that it .... might fail the pairwise MI test) violate the causal independence assumption, .... hidden disease nodes, and the bottom layer represents observed symptom nodes. ... The system uses Bayesian networks to interpret live telemetry and ... www.cs.ubc.ca/~murphyk/Bayes/bnintro.html - Cached - Similar

# 3. Computationally efficient algorithms for multiple fault diagnosis ...

in Bayesian networks is evidence propagation, that is, obtaining ... nodes and 4000 symptom nodes, the evaluation of the products .... After obtaining the failure source—test dependency matrix ..... probability that test fails if the system state occurs, or the ..... For each Monte Carlo run, the in- ...

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using a **node** order or by employing some statistical **dependence** measures. It .... "causes" B. This makes directed models capable of learning **causal** ...... observing the **symptoms**, a **Bayesian network** can give the **probability** of different ...... To evaluate a probabilistic DAG, we propose a **Monte Carlo** sampling ...

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# 5. Efficient fault diagnosis using probing

distributed computer **systems** by using **test** transactions, or .... sumptions yield a **causal** structure depicted by a two-layer ..... than one **node** can **fail** at a time. (In other words, we im- ... Figure 5: An example **network** and **dependency** matrix. ..... **probability** assessment and inference using **Bayesian networks**. ... www.research.ibm.com/RAIL/papers/AAAI0Zsymp-probe.pdf · Similar

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A causal model is a directed graph, where nodes represent symptoms and ... An example of a failure dependency model is provided in ..... provides a Bayesian update to the probability of component m ..... Monte Carlo analysis is used to ... as a function of diagnostic test results. The back-propagation network ...

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given a set of evidence (for example, symptoms, .... influence arcs, that is conditional dependence of the destination on the origin. ... In the example, the angiogram test node rep- ... causal probability networks and Bayesian nets. (Pearl 1988). ..... ence is a version of Monte Carlo simulation, ...

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### 8. NIPS\*2000 Online Abstracts and Papers

Neural **networks** can capture, with few parameters, **dependencies** of any order ..... Accumulator **Networks**: Suitors of Local **Probability Propagation** ... cause the **symptom** -- on some occasions, a disease may **fail** to activate the **symptom**. ..... Active Learning for Parameter Estimation in **Bayesian Networks** -- Simon Tong, ... www.cs.cmu.edu/Groups/NIPS/O0/00abstracts.html - Cached -- Similar

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We propose a hybrid **Bayesian network**-neural **network system** .... ing all the direct (**causal**) **dependencies** between the random variables of the ...... characteristics of Markov chains and the corresponding **Monte Carlo** meth- ...... In Chapter 5 we see that this **probability** is equal to the **node** updating prob- ... https://oa.doria.fi/bitstream/handle/16024/2950/mappingb.pdf?...1 - Senior

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sensors and route them back to a central location for further ... Bayesian network is based on the notion of evidence propagation. ... Links between nodes identify causal-effect or dependency ... equal to each other and at a higher weight than X ... probability table of the corresponding ground node in the ...

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# 2. Artificial Intelligence: Using hidden nodes in Bayesian networks ...

In order to determine the conditional probability matrices for the hidden ... Both forward and backward propagation are used to compute the node probabilities. ... are also known as belief networks, probabilistic networks, or causal networks. ... Bayesian networks have two components, the dependency graph and the ...

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P: the dependency probability distribution for every node in Bayesian network .... all vertices are in T, thus all dependency (weight) estimates are correct. ... Consider the backward inference in Bayesian networks. Here the causal nodes .... J. Pearl, A Constraint-Propagation Approach to Probabilistic Reasoning, ...

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particular trial receives a **weight** based .... development: interval **propagation** in **bayesian network**. In ... updating in **causal** probabilistic **networks** by local computa- ...

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Causal factors and inter-dependencies between them including common casual .... Figure 1 A Bayesian Network contains nodes, arcs and probability table ... (propagation is both 'forward' and 'backward') .... weight and power of BN analysis to bear on the problem of project scheduling. This makes it possible to: ...

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Causal graphical models augment graphical probability models with .... a natural quantum analogue to classical causal Bayesian networks, .... In causal Bayesian networks, the arcs are directed and the probabilistic dependencies are causal. .... of the target node's CN-set are obtained by forward propagation. ...

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the Bayesian network consisted of this node model, the ... with probability noted, which represents the causal ... and reflect the dependency relation of variables in the .... network by adopting back-propagation algorithm learning similar with the training multilayer .... After the link weight between the nodes is ...

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grounding in **probability** theory makes them a particularly attractive formalismfor ... of the **network**, it is especially dicult to specify the conditional **dependencies** between ... nally mapping the trained neural **network back** into a **Bayesian network**. .... the evidence in the **network** is **causally** upstream of the **node**. ...

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# 9. A BAYESIAN NETWORK MODEL FOR RELEVANCE FEEDBACK IN IMAGE RETRIEVAL ...

Then settle the **dependency** relationships between the variables, that is, creating the ... All **nodes** in the **network** are associated with a belief value and all direct ... with a link **weight**, which is represented by a conditional **probability**. ... The bottom-up **propagation** that is inverse to **causality** is inhibited. ...

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intuitive causal dependencies of a Bayes net. ... where dependencies are encoded by the usual "conditional probability tables" (CPT), which we ..... network structure is 'forward-filtering-backward-sampling' (FFBS) [3]. Assume for instance that the network is a tree. In that case we first propagate information from ...

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4) Determine the causal dependency relationships between these two variables. This involves creating direct ..... probability relating the cause node to the effect nodes ..... evidence, initiates the inference network propagation, and then .... [24] V. Mihailovic and M. Pekovic, Dynamic Bayesian Networks; A State ... ieeexplore,ieee.org/iel5/.../01658037.pdf?... - Similar

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#### 5. Bayesian network - Wikipedia, the free encyclopedia

X is a Bayesian network with respect to G if its joint probability ... The additional semantics of the causal networks specify that if a node X is ... There are three main inference tasks for Bayesian networks ... of the state of a subset of variables when other variables (the evidence variables) are observed. ...

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### 6. European Journal of Operational Research ; Using Bayesian network ...

The probability of being in each particular state of a node is conditioned ... is loosely defined in terms of causal dependencies with reference to Fig. .... This evidence is propagated through the rest of the network to determine the .... and provide information about the cause-effect relationships in the model. ...

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ral belief-network representation of causal in-dependence, the new representation .... on the state of the effect at time t and on the transi- ... In gen- eral, node c j represents the state of cause c ... probability assessment is tractable, (2) if we use any of the standard belief-network inference algorithms ...

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that represents the causal dependencies of context in-..... a causal influence [6]. Each node has a state space and a probability distribution representing ... So when we introduce evidence, it can propagate the effect and influence the probabilistic in-.... tic inference in singly connected bayesian networks, ...

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This is the great beauty and power of Bayesian inference in action. ... This phenomenon is called "explaining away" in Bayes net circles. .... To a large degree, the links of the network correspond to causation. ... the links may be cause-effect relationships between parent and child nodes, you can supply evidence ...

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Nov 17, 2000 ... Figure 1: A Bayesian network representing causal influences among five .... rect probability model after intervening to fix any node's value is ... unique probabilities, using evidence propagation in a struc- ... Fitting this dependence pattern with a scenario in which B is the cause and A and C are ...

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papers.ssm.com/sol3/Delivery.clm/risk 775.pdf?abstractid....1 - Similar

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Bayesian Networks and Influence Diagrams: A... - by Uffe E Kjaerulif, Anders L Madsen - 325 pages

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Causality; models, reasoning, and inference - Pearl - Cited by 2354

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Bayesian Network Applications. Inference, causal discovery. Probability Concepts .... Dependency propagates thru non-colliders ... Node X and Y are d-separated by the set of observed nodes Z in G if ... Cooper, Heckerman; Select the model with the highest posterior probability, given the data. Inductive Causation ...

polymath.vbi.vt.edu/tiki/tiki-download\_wiki\_attachment.php?attid... - Similar

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Increased robustness of Bayesian networks through probability intervals ...... Probability bounds are propagated from each node to its children, ..... car he turns 2 Note that it is not necessary describe all dependencies by causal rules. ..... H., New directions for uncertainty reasoning in deductive databases. ... linkinghub.elsevier.com/retrieve/pii/S0886613X96001387 - Similar

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Author Keywords: Abductive reasoning; Bayesian networks; Fuzzy parameters; ... belief propagation in Bayesian networks are difficult to embed. ... This information can relate to boundary, dependency or disjunctive conditions. ... Table 1 lists the causal influences in terms of conditional probability distributions. ... linkinghub.elsevier.com/retrieve/pii/S0305054803002041 - Smilar

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Bayesian Networks: Directed acyclic graphs that indicate causal structure. Markov Networks: Undirected graphs that capture general dependencies. ... Each node has a conditional probability table (CPT) that gives the .... \( \lambda \) messages are sent from children to parents representing abductive evidence for a node. ... www.cs.utexas.edu/~moonev/cs343/slides/bayes-nets.ppt · Similar

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Inference algorithms for **Bayesian networks** exploit **dependency** structure; Message-passing algorithms. "belief **propagation**" passes simple messages between nodes, .... Links: **causality**. Each **node** has a conditional **probability** distribution .... Attempts to reduce **inductive** problem to **deductive** problem ... cocosci.berkeley.edu/tom/falks/graphmods.ppt - Smillar

### 6. Chapter 22 REASONING ABOUT EVIDENCE USING BAYESIAN NETWORKS

A criminal investigation is an **abductive** diagnosis problem [16]. How- ... A **Bayesian network** uses **probability** theory and graph theory to con- ... the parent-child relationship or the **probability dependency** between two nodes. A **Bayesian** ..... of **probability propagation** for a converging connection, when the state ... www.springerlink.com/index/dil23567403066g51.pdf - Smilar

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#### 8. 113966 136..152

Probabilistic dependency analysis. Probability propagation is dynamically .... Based on the created Bayesian network, dependency analysis and .... between causes and effects so much as direct dependencies among causal factors. ... given the created model, and including inductive and deductive reasoning. Given the ...

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# 9. [PDF] Design of an Intrusion Detection System Based on Bayesian Networks

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on the **inductive** approach. The decision-making ... with arcs representing **causal dependence** between the parent and the child, .... established by the experts for the **node** organization ... **probability propagation** in **Bayesian network**, one ...

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### 10. [PS] Bayesian Networks

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abductive queries, such as \What is the most plausible explanation for a given ... Figure 1: A Bayesian network representing causal inuences among ve variables . ... incident to the node \Sprinkler". To represent a pavement covered by a ..... when the propagation process subsides, the posterior probability of an ... the cs.ucla.edu/pub/stat\_ser/R216.ps - Similar

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A Bayesian method for the induction of probabilistic ... - Cooper - Cited by 1841 A Bayesian network approach to making inferences in ..... - Nadkarni - Cited by 57 Causality: models, reasoning, and inference - Pearl - Cited by 2354

Constrained abductive reasoning with fuzzy parameters in Bayesian ...

Author Keywords: Abductive reasoning; Bayesian networks; ... (ii) Extra constraints or knowledge regarding belief propagation in Bayesian networks are difficult to embed. ... Table 1 lists the causal influences in terms of conditional probability ... Compute the posterior probability of every A, B, and C, ... linkinghub.elsevier.com/retrieve/pii/S0305054803002041 - Similar

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2. [PPT] Intelligent Information Retrieval and Web Search

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Bayesian Networks: Directed acyclic graphs that indicate causal structure, Markov Networks: Undirected graphs that capture general dependencies, ... determine the posterior probability of some query variables. ...  $\lambda$  messages are sent from children to parents representing abductive evidence for a node. ... www.cs.utexas.edu/~mooney/cs343/slides/bayes-nets.ppt - Similar

3. (PPT) Bayesian Networks as a tool for causal discovery

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Bayesian Network Applications, Inference, causal discovery. Probability Concepts .... Dependency propagates thru non-colliders ... Node X and Y are d-separated by the set of observed nodes Z in G if ... Cooper, Heckerman; Select the model with the highest posterior probability, given the data. Inductive Causation ... polymath.vbi.vt.edu/tiki/tiki-download\_wiki\_attachment.php?attld... - Sirrillar

# 4. Chapter 22 REASONING ABOUT EVIDENCE USING BAYESIAN NETWORKS

A criminal investigation is an abductive diagnosis problem [16]. How- ... A Bayesian network uses probability theory and graph theory to con- ... the parent-child relationship or the probability dependency between two nodes. A Bayesian ..... of probability propagation for a converging connection, when the state ... www.springerlink.com/index/dk23567403066g51.pdf - Similar

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### 5. [PPT] Bayesian models of inductive learning

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Inference algorithms for **Bayesian networks** exploit **dependency** structure; Message-passing algorithms. "belief **propagation**" passes simple messages between nodes, .... Links: **causality**. Each **node** has a conditional **probability** distribution .... Attempts to reduce **inductive** problem to **deductive** problem ...

cocosci berkeley.edu/tom/talks/graphmods.ppt - Similar

### 6. Constrained abductive reasoning with fuzzy parameters in Bayesian ...

The model developed here can be built on any exact **propagation** methods, ... Ilana Shraga, Steen Andreassen, A **Causal** Probabilistic **Network** for Optimal Treatment of ... prior and **posterior** probabilities in **Bayesian networks** with extreme probabilities ... A new method for symbolic inference in **Bayesian networks**....

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abductive queries, such as \What is the most plausible explanation for a given ... Figure 1: A Bayesian network representing causal inuences among ve variables. ... incident to the node \Sprinkler". To represent a pavement covered by a ..... when the propagation process subsides, the posterior probability of an ... ttp.cs.ucla.edu/pub/stat\_ser/R216.ps - Similar

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#### 9. Title

inference or **deductive** of various geometric structures from multiple cues. ... **Bayesian networks** knowledge is represented as **causal** relations or **probability dependence** between variables ... conditional **probability** distribution of each **node** given ... **Probability propagating** and updating algorithm is done ... iseexplore.isee.org/iel5/9908/31512/01469004.pdf?tp... - Similar

# 10. [PDF] A Permutation Genetic Algorithm for Variable Ordering in Learning ...

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Learning the structure, or **causal dependencies**, of a ... tuning representation biases [Mi97] in **Bayesian network** .... maximal **posterior probability** given evidence e. Finding ... clique-tree **propagation** (also called join tree or junction .... and coefficients for quantitative **inductive** bias such as ...

www.kddresearch.org/Publications/Conference/HGPS1.pdf - Similar

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